This Week in SM311P:1001: Homework, etc.

Homework must be submitted stapled in assignment groupings.

Always attempt to complete the readings before class. You are responsible for reading 10 pages past the current lecture. You may not understand the material completely, but you must read it prior to lecture.

** Problems to submit on the date listed: **

Week of 03 Nov

Monday	VC 3, 4a & 4b, 8
Wednesday:	VC 6, 9, 10
Friday:	VC 7 (parts a & b), 21, A8

A8. Compute the curl of the gradient of f, a scalar function of position, in Cartesian and in spherical coordinates. That is: Compute $\vec{\nabla} \times \vec{\nabla} f(\vec{r})$ in its Cartesian and spherical coordinate representations where $f(\vec{r})$ is a scalar-valued function of position. Assume that all the derivatives exist and are continuous.

TERMS & PRINCIPLES TO TREASURE:

MD: Introduction to Matrices and Determinants VC: => Vector Calc Handout Problem

Hints: